Ground Animal Research and BSP

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Ames Research Center

Objective:

- To support NASA HQs in the solicitation, selection, and management of fundamental biological research
- To develop and implement opportunities to obtain biological samples from ground and space research projects, e.g., offers to participate in biospecimen sharing programs; offers to participate/collaborate in ground experiments or flight missions of national or international partners
- To provide key unique research facilities, i.e., rodent and cell research centrifuges for use by researchers selected through the NRA process.

Relevance/Impact:

- In response to the NASA Authorization Act of 2005 (Public Law No. 109-155, NASA developed an investment portfolio of fundamental research. NASA's fundamental biological research program advances our basic understanding of how life adapts to alterations in gravity while also provides the foundation on which to mitigate the negative effects of such adaptations, e.g. muscle and bone mass loss.

Development Approach:

- ARC will explore flight and ground-base research opportunities for fundamental biological research that pursues NASA's goals and objectives
- ARC will coordinate with NASA HQs the response and implementation of all targets of opportunity for fundamental research in space biology and biomedicine.
- ARC will maintain and facilitate the use of centrifuges for animal and cell research for use by approved investigators.

Project Life Cycle Schedule

Milestone	Develop Foton M3 Option	Develop Bion M1 Option	Support BSP for CBTM STS-118	Develop BSP Options for ASI MDS ISS Flight	Support Award & Monitoring of Grants	Organize and Support Science Meetings and Publication of Results	Support ARC Centrifuges and Associate Facilities
Baseline Actual	10/01/2006 11/15/2006	01/30/2007 01/30/2007	06/01/2007 06/01/2007	08/01/2007 08/15/2007	Ongoing	Ongoing	Ongoing